



## INSTRUCTIONS FOR

# TORQUE WRENCHES MICROMETER STYLE

MODEL NO: **STW701, STW702, STW703, STW706, STW707**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to  
instruction  
manual

## 1. SAFETY

- ✓ Ensure all workshop safety rules, regulations, and conditions are complied with when using torque wrench.
- ✓ Maintain the wrench in good condition and replace any damaged or worn parts. *Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.*
- ✓ The wrench is a precision tool, **DO NOT** abuse it. **DO NOT** drop or throw the wrench.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ❑ **WARNING! DO NOT** use the wrench if damaged or thought to be faulty (contact Service Agent).
- ✗ **DO NOT** use wrench unless you have been instructed in its use by a qualified person.
- ✗ **DO NOT** use any cleaner which might affect the high pressure grease with which the wrench is packed.
- ✗ **DO NOT** apply more torque than the maximum scale reading.
- ✓ After use adjust to lowest torque setting (but not below), clean and store in a safe, dry, childproof location.

## 2. INTRODUCTION

Manufactured from hardened and tempered Chrome Vanadium steel with a polished satin finish. Smooth action ratchet head with flip reverse. Easy to use torque adjustment locks when required setting is selected. Calibration tolerance in accordance with BS EN ISO 6789:2003. Scales graduated in both Nm and lb.in/lb.ft. Wrenches are individually tested to standards with  $\pm 4\%$  accuracy and each wrench is issued with an individually numbered test certificate. Supplied in storage case.

## 3. SPECIFICATION

| Model             | STW701          | STW702           | STW703           | STW706             | STW707             |
|-------------------|-----------------|------------------|------------------|--------------------|--------------------|
| Torque range(Nm)  | 4-20            | 20-100           | 40-200           | 150-800            | 200-1000           |
| Alternative scale | 2.94-14.75lb.ft | 14.75-73.76lb.ft | 29.5-147.52lb.ft | 110.64-588.23lb.ft | 147.51-737.56lb.ft |
| Drive (sq)        | 1/4"            | 3/8"             | 1/2"             | 3/4"               | 3/4"               |
| Length (mm)       | 340             | 440              | 610              | 1230               | 1230               |

## 4. OPERATION

- 4.1. Hold torque wrench so that required scale - on shaft, just above hand grip - is uppermost and visible.
- 4.2. Pull down the locking ring to unlock the hand grip.
- 4.3. Turn hand grip to select torque setting as follows:  
**Required setting - 56Nm**  
Hold back the locking ring and turn hand grip until top edge is level with the 55Nm line on the shaft scale and the 'zero' on the hand grip graduation is aligned with the centre line of the shaft scale.  
Rotate the grip further, clockwise, until the '1' on the hand grip graduation is aligned with the centre line to give a setting of  $55 + 1 = 56\text{Nm}$ .
- 4.4. Release the locking ring to prevent accidental alteration of the setting.
- 4.5. When tightening the nut/bolt you will feel and hear the wrench mechanism click when the set torque is reached. Immediately stop applying force to wrench to avoid over-tightening the nut/bolt.
- 4.6. Wrench will reset ready for the next application.  
Note: If wrench is not used for some while, operate it a few times, at a low setting, to ensure all internal parts are coated in grease.

## 5. RECALIBRATION

- 5.1. To ensure continued accuracy the wrench should be recalibrated annually and after any impact or other misuse. Contact an NAMAS accredited laboratory.

## 6. CALIBRATION CERTIFICATE

- 6.1. See last page for calibration certificate.



## TORQUE TOOL CALIBRATION CERTIFICATE

Declaration of Conformance  
(in accordance with BS EN ISO 6789-1:2017)<sup>1</sup>

|                                |               |                             |            |
|--------------------------------|---------------|-----------------------------|------------|
| Test machine type/name         | TORQUE TESTER | Measurement uncertainty     | 0.031kgf.m |
| Test machine serial No.        | 4266          | Ambient temperature         | 30 °C      |
| Test machine calibration date  | 2018/6/20     | Humidity                    | 59 %       |
| Measurement error <sup>2</sup> | ±1%           | Test units: (Nm, lb/ft etc) | Nm         |

| 1      |           | Min Torque:                  | 20     | Clockwise                           |   |   |   |   |         |
|--------|-----------|------------------------------|--------|-------------------------------------|---|---|---|---|---------|
|        |           | Max torque:                  | 100    |                                     |   |   |   |   |         |
| Test % | Test Load | Tolerance ± 4 % of Test Load |        | Completed test reading <sup>3</sup> |   |   |   |   |         |
|        |           | Min                          | Max    | 1                                   | 2 | 3 | 4 | 5 | Average |
| 20%    | 20        | 19.20                        | 20.80  |                                     |   |   |   |   |         |
| 60%    | 60        | 57.60                        | 62.40  |                                     |   |   |   |   |         |
| 100%   | 100       | 96.00                        | 104.00 |                                     |   |   |   |   |         |

| 2      |           | Min Torque:                  |      | <b>Anti-clockwise</b><br>(This part 2 to be completed only where applicable) |   |   |   |   |         |
|--------|-----------|------------------------------|------|------------------------------------------------------------------------------|---|---|---|---|---------|
|        |           | Max torque:                  |      |                                                                              |   |   |   |   |         |
| Test % | Test Load | Tolerance ± 4 % of Test Load |      | Completed test reading <sup>3</sup>                                          |   |   |   |   |         |
|        |           | Min                          | Max  | 1                                                                            | 2 | 3 | 4 | 5 | Average |
| 20%    | 0         | 0.00                         | 0.00 |                                                                              |   |   |   |   |         |
| 60%    | 0         | 0.00                         | 0.00 |                                                                              |   |   |   |   |         |
| 100%   | 0         | 0.00                         | 0.00 |                                                                              |   |   |   |   |         |

|                           |         |
|---------------------------|---------|
| Tool Model Number         | STW702  |
| Tool Serial Number        |         |
| Tested by (print name)    | John Li |
| Date of test <sup>4</sup> |         |

**Notes:** <sup>1</sup> Testing is in compliance with International Standard procedures, with test equipment calibrated by a laboratory traceable to International Standards.

<sup>2</sup> Measurement error shall be less than ¼ of the maximum permissible relative deviation of the torque tool.

<sup>3</sup> The observed values fall within the maximum permissible deviation (tolerance). For tools with a flexible head, the result is valid only if the measuring axis is perpendicular to the axis of the tool.

<sup>4</sup> This Sealey Declaration of Conformance is issued at the time of manufacture. Its' validity is open ended until the torque tool is used for the first time. The default re-calibration period of 12 months (or 5,000 cycles, whichever occurs first) starts after first use of the torque tool (BS EN ISO 6789-1:2017, clause 5.3 refers).

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### ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

**Note:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**Important:** No Liability is accepted for incorrect use of this product.

**Warranty:** Guarantee is 12 months from purchase date, proof of which is required for any claim.

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